

The Amazing Door Maze

The Amazing Door Maze is an interactive exhibit that demonstrates accessible routes and entrances. The Maze consists of three freestanding doors:

- a 30 inch door with $\frac{3}{4}$ inch threshold and a door knob
- a 32" door with a $\frac{1}{2}$ " threshold, lever handles and swing away hinges
- a 36" door with a suitable path of travel and lever handles



When assembled, these doors should be placed 10'-15' apart in a straight line or a U configuration to allow easy movement from one to the other. For the Maze to be most effective, participants should use wheelchairs so that they experience the importance of accessible/universal design. Wheelchairs are usually available in exhibit halls and hotels and can also be rented or borrowed locally.

The Maze is a "living" example of the importance of an accessible entry on an accessible path of travel in participating in all activity "behind those doors".

Door Maze in Action: Washington D.C. Conference, November 2001





Offset hinge increases door width

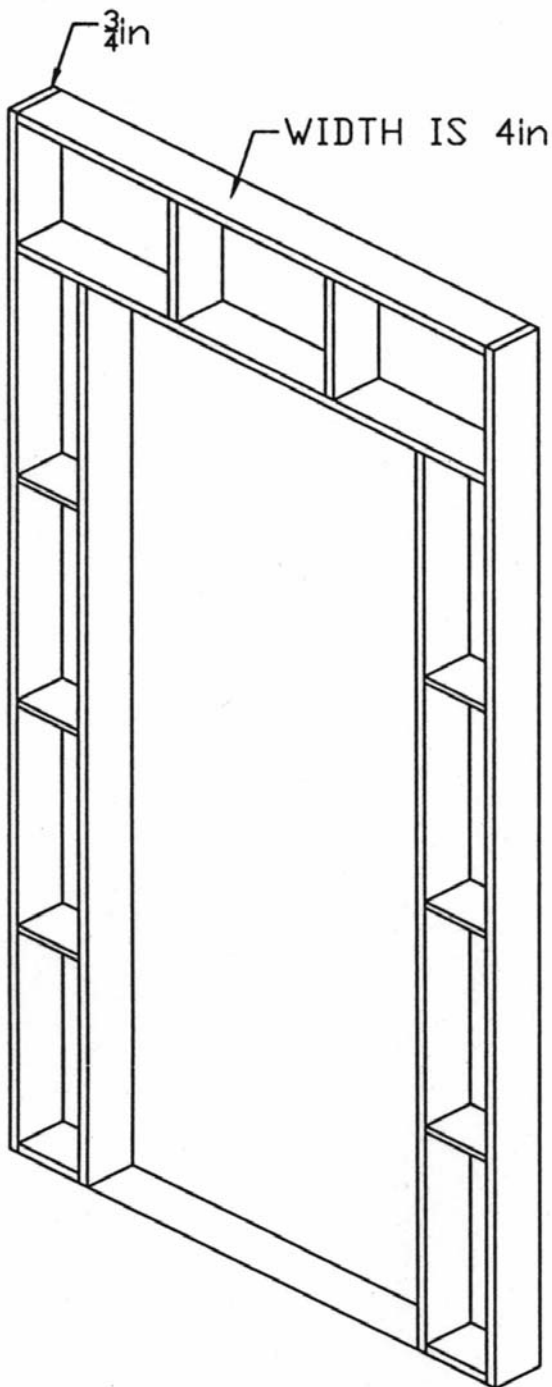


Lever door handle makes opening easier

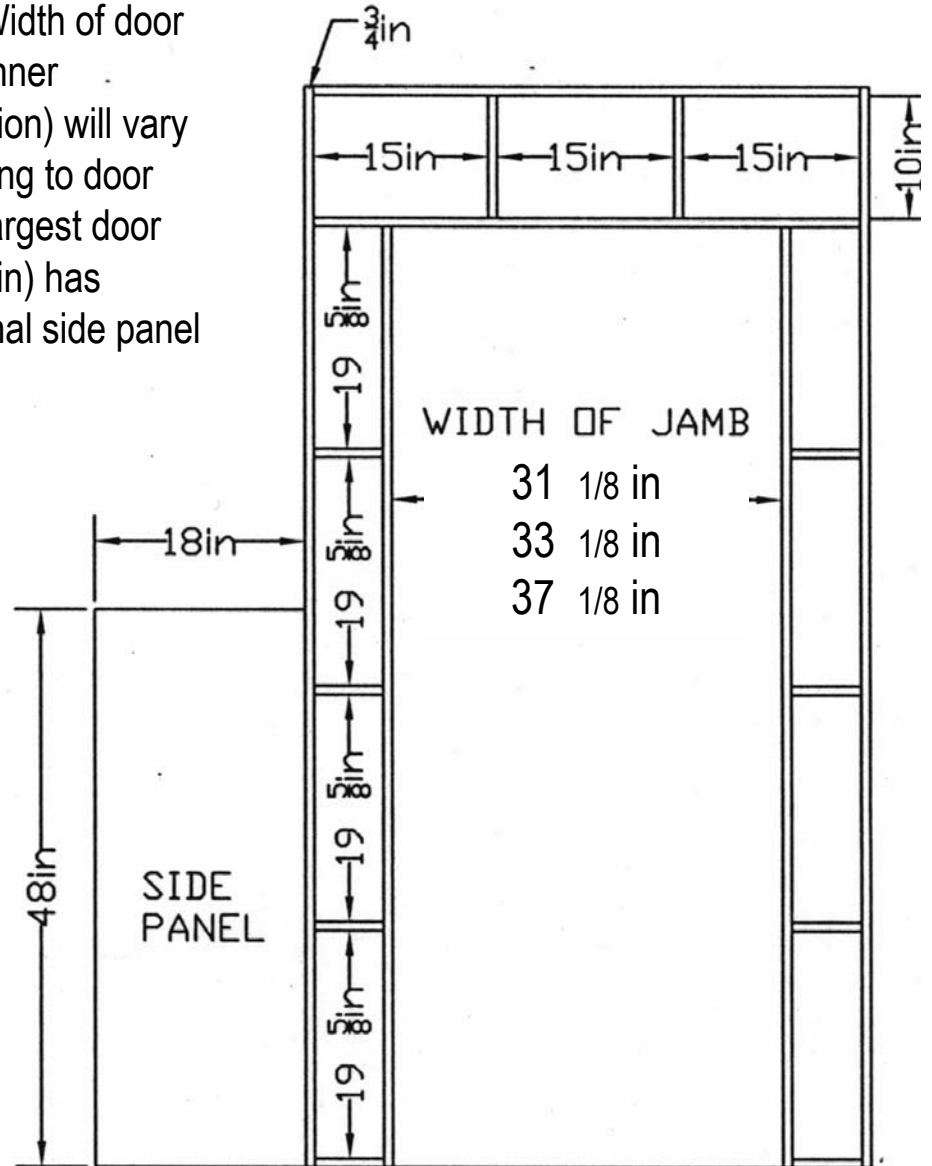


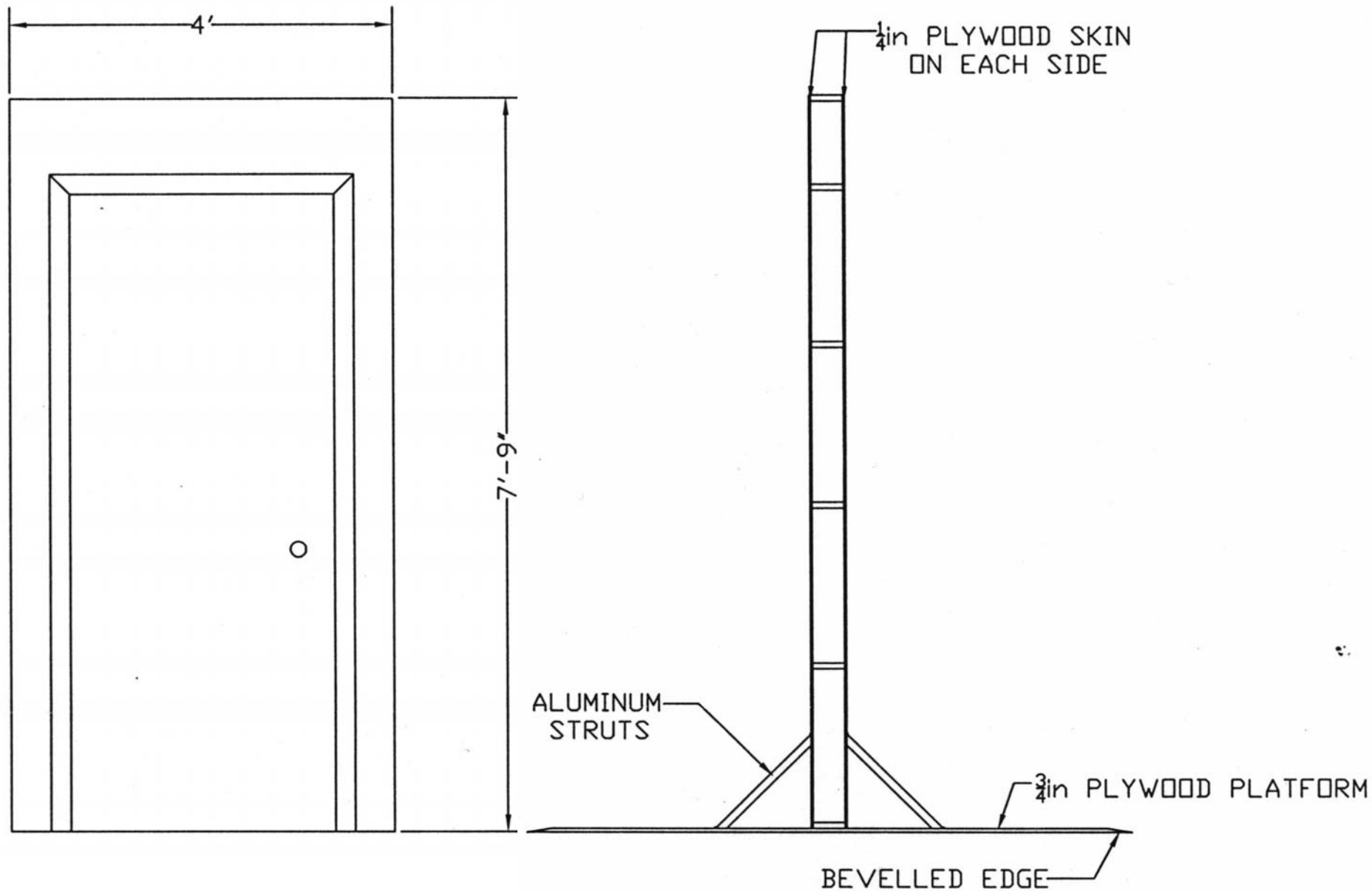
Door knob makes opening more difficult

Amazing Door Maze Construction Specifications



Note: Width of door jamb (inner dimension) will vary according to door size. Largest door (37 1/8 in) has additional side panel





Note: Plywood platforms can be attached with hinges. Largest door size has 5' x 6" platform; other door sizes use 4' x 4' platforms.

Amazing Door Maze Parts List, Assembly and Signage Placement Instructions

- 1 – 4' x 8' Door Frame with 30" Red Door ("Bad")
- 1 – 4' x 8' Door Frame with 32" Yellow Door ("Better")
- 1 – 4' x 8' Door Frame with 36" Green Door ("Best")
- 1 – 18" x 48" x 4" side panel (gray)
- 4 – 4' x 4' beveled edge platforms
- 2 – 4' x 5'6" beveled edge platform
- 12 – Aluminum bracing bars
- 6 – 5 1/2" bolts with wing nuts
- 12 – 2" bolts with wing nuts
- 14 – hinge pins
- 2 – 66" x 18" Aluminum Platform Extension Plates
- 4 – 48" x 18" Aluminum Platform Extension Plates

Required tools:

1. Hammer to tap in hinge pins
 2. Screw-driver to attach extension plates
 3. Pliers may be needed to turn wing nuts
- Parts List, Assembly and Signage
Placement Instructions

Assembly Instructions

1. Set all three doorframes upright and space about 8 feet apart. Note: doorframes will stand up without platforms or braces attached.
2. Starting with the Green Door (“Best”), attach the 18” x 48” gray side panel to side of doorframe. The panel locks into the side of doorframe as show in figure 1 below.

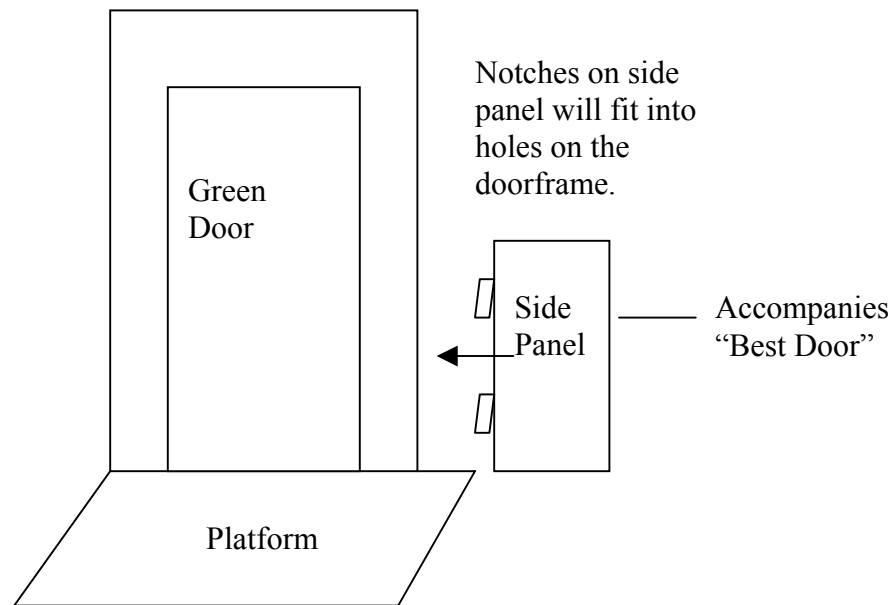


Figure 1.

3. Attach the 5'6" x 4' platforms to the foot of the doorframe using the hinge pins as shown in figure 2 below. The hinges on the foot of the doorframe and platforms will line up.

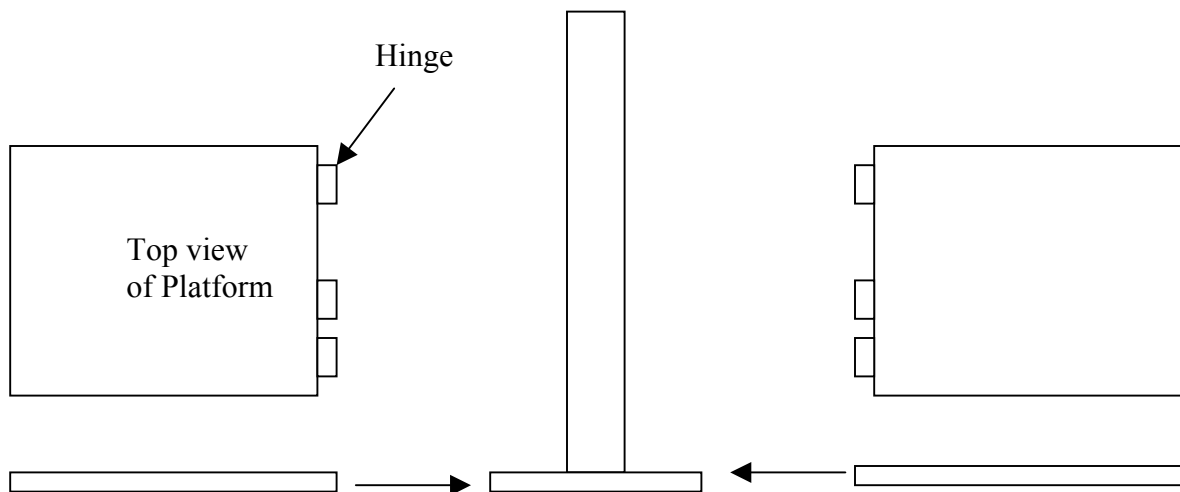


Figure 2. Side view with platforms

4. Attach aluminum bars to doorframes using 5" and 2" bolts as show in figure 3. Note: Holes for bolts are pre-drilled in the frames and platforms and will line up with the holes on the brace bars.

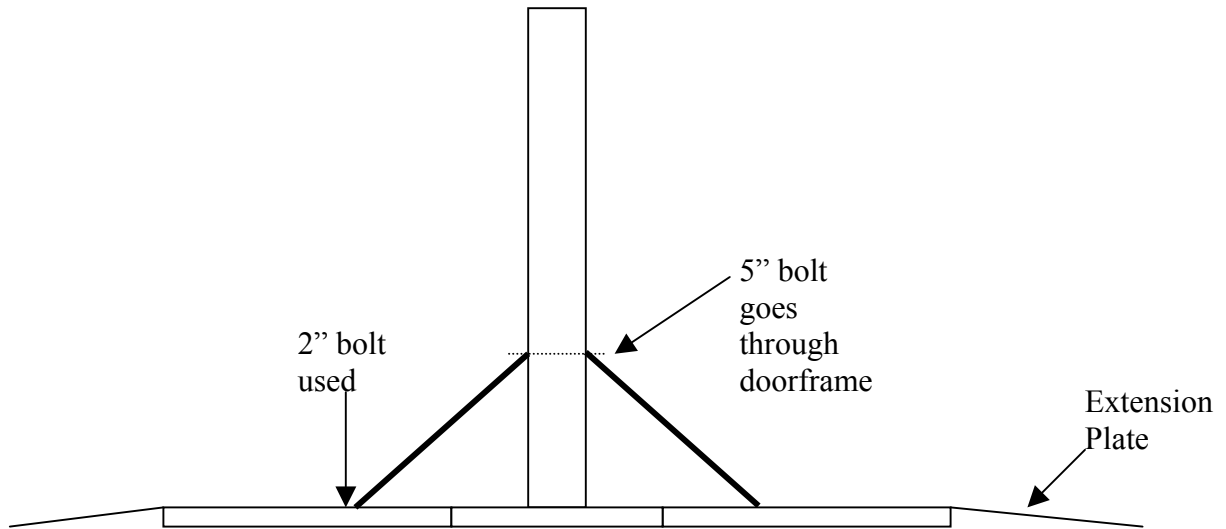


Figure 3.

5. Attach the 18" x 66" aluminum extensions to both platforms using three small wood screws. (Holes are pre-drilled in the plates)
6. Assemble the 4' x 4' platforms, extensions, and braces on the yellow and red doors.
Note: 4' x 4' platforms have two hinges each.